



Service Manual

Dishwasher integratable ADG 8966 IXM

Mode	
Version	1

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Family	BIG - VBL HIGH 6 Sensor 2

Document-No.: 4812 718 19569

Date: 30.10.2003

Technical data

Dimension

Height	82.0 - 87.0	cm
Width	59.7	cm
Depth	55.5	cm
Weight	52	kg

Wooden door for Integrable types

Thickness min.	16	mm
Thickness max.	20	mm
Width min.	592	mm
Width max.	595	mm
Height min.	515	mm
Height max.	600	mm
Weight max.	5.5	kg
Max. stick out over lower		
edge of appliance door	92	mm
Height of plinth min.	93	mm

Electronic boards

Service boards	see spare part list
Serial boards	see on the boards itself
DUB	4619 724 04851
Programing of version and	programmed control
board, see "Service" and	Data set" on rating

plate of inner door:

CB programmed 484114 Data set 484104

Basic control board, not programmed see on the board itself 4619 724 60492

Succession of programs

Programs see program diagram Succession A1a - A2a - A3a - A5e - A8a - A9a

Datas Energy Label

Reference program	A5a
Energy Performance	Α
Cleaning Performance	Α
Drying Performance	Α

Alarms

Refill rinse aid Refill salt

Options

Zone washing Delay function

Program information

Start indicator Pre wash Main wash Drying End

All programs will be locked after start. Changing the program or finishing the program will be possible only after pressing the start button for longer then 1.5 sec. (Break by customer)

A switching off the appliance or unplug the appliance for a while, this will frozen the program step and later on, the program continuos on the same position.

Exception: Switching off the appliance or unplug the appliance during the drying phase, this will lead directly to the end of the program.

Water Volume at alternating spray system

Volume at alternating spray system (same level when selected zone washing as in the normal programs)

Water	Volume	Level
Regeneration	0.3 l	15 mm
Back rinse 3x	1.0 l	60 mm
Prewash	3.91	120 mm
Main wash	3.2 l	118 mm
Intermediate rinse 1	3.2 l	118 mm
Intermediate rinse 2	3.2 l	118 mm
Clear rinse	3.2 l	118 mm
Safety/ overflow	8.5 I	141 mm

Measuring the level

Remove the coarse sieve, put in a measuring meter into the sump, measure the hight of the water level.

Detergent max.

Pre-wash	10	cm^3
Main-wash	40	cm ³
Rinse aid	135	cm^3
6 Dosage steps	1 - 6	ml

Water softener

Saltcontainer	2	kg
Resin container	900	cm^3
Regeneration dosage	300	cm^3

Technical data

Water pressure

Inlet pressure	0.3 - 10	bar
Spray pump pressure	0.3	bar

Rotations

Spray pump motor	2800	RPM
Drain pump motor	3000	RPM
Spray arm lower	30 - 40	RPM
Spray arm upper	30 - 40	RPM
Fan for drying	2500	RPM

Spray arms, turning rhythm at alternating spray system

Turning starts every time with the upper spray arm

Pre wash Lower arm ~3min, Upper arm ~1min Main wash Lower arm ~3min, Upper arm ~5min Intermediate rinse

Lower arm ~2min, Upper arm ~2min Final rinse Lower arm ~2min, Upper arm ~2min Service Test program

Lower arm ~30sec, Upper arm ~30sec

Remark: When switching of the main switch or interrupt the mains during the Test Program runs, then the alternating of the spray arms change in the test program to the rhythm of main wash 5/3 min.

Important: To leaf the Test program is possible by made a break by customer (pushing the start button for 1.5 sec.)

After finishing the test program (End LED shines and/or Start LED goes of) must the appliance be switched off.

If this will not be done, then the next normal wash will be made with the frequency of the Service Test Program ~30/30sec.

Flow rates/ Inlet volume

Flow meter (at 0.3 bar = quantity 1.1 l/min) Spray pump Drain pump Pump height max. Inlet valve Spray arm lower Sprayarm upper Shower top	208 45 - 65 16 1.1 4 ~ 33 ~ 27 ~ 8	Imp/I I/min I/min m I/min I/min I/min
Fan for drying: Total Primary air flow Secondary air flow	900 210 780	l/min l/min l/min

Electrical base data

Voltage	220/ 230	V
Frequency	50	Hz
Total power	2.0 - 2.2	kW
Fuse	10	Α

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Spray pump motor alternating spray system

Voltage	220/ 240	V
Power consumption	125	W
HI	79	Ω
HA	60	Ω
Capacitor	4	μF

Drain pump motor

Voltage	220/ 240	V
Power consumption	30	W
Resistance	146	Ω

Fan for drying

Voltage	220 - 240	V
Resistance	141	Ω

Heating - 1 Element system

Voltage	220/ 230	V
Power consumption	1.87/ 2.04	kW
Resistance	24.5	Ω
Heating speed	~ 2.0	°C/min
Temperature on surface	~ 115	°C
Safety thermostat		
self reset		
(Temperature of water)	~ 85	°C
Fuse	206	°C

Potentiometer

Points of meassurement:	1(black) to	2 (middle)
Position 0	0.0	k Ω
Position 1	0.5	$k\Omega$
Position 2	1.0	k Ω
Position 3	1.4	$k\Omega$
Position 4	1.8	k Ω
Position 5	2.3	k Ω
Position 6	2.6	$k\Omega$

Single electric inlet valve

Voltage	220/ 240	V
Frequency	50/ 60	Hz
Resistance	3.76	$k\Omega$

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Technical data

Regenerating valve

Voltage	220/ 240	V
Frequency	50/60	Hz
Resistance	3.13	$k\Omega$

Motor Diverter Valve

Voltage	220 - 240	V
Frequency	50/60	Hz
Resistance	6.5	$k\Omega$
Signal (2x within ~13 sec.)	5.0	V

Coil of dispenser

Voltage	220/ 240	V
Frequency	50/60	Hz
Resistance	1.3	kΩ

Reed contacts

flow meter salt control rinse aid control

Optical water indicator (OWI)

Optical measurement of the water in sump Combination part of:

Turbidity sensor (DON)
Thermostat temp. sensor (notice NTC)

NTC

20 °C	58.1	$k\Omega$
25 °C	47.1	$k\Omega$
30 °C	38.2	$k\Omega$
40 °C	25.4	$k\Omega$
50 °C	17.2	kΩ
60 °C	11.8	kΩ
70 °C	8.3	$k\Omega$
80 °C	6	$k\Omega$
85 °C	4	kΩ

Regeneration

Volume	300	cm ³
Position 0 after wash cycles water hardness	12 0 - 5 0 - 0.9 0 - 9	°dh mmol/l °Fh
Position 1 after wash cycles water hardness	10 6 - 10 1 - 1.8 10 - 18	°dh mmol/l °Fh
Position 2 after wash cycles water hardness	7 11 - 15 1.9 - 2.7 19 - 27	°dh mmol/l °Fh
Position 3 after wash cycles water hardness	5 16 - 21 2.8 - 3.7 28.37	°dh mmol/l °Fh
Position 4 after wash cycles water hardness	3 22 - 28 3.8 - 5.0 38 - 50	°dh mmol/l °Fh
Position 5 after wash cycles water hardness	2 29 - 35 5.1 - 6.3 51 - 63	°dh mmol/l °Fh
Position 6 after wash cycles water hardness	1 36 - 60 6.4 - 10.7 64 - 107	°dh mmol/l °Fh
Salt consumption for regeneration	77	g
Number of cycles with 2 kg salt	26	

Accesory

If you need spare parts apart from the spare part list have a look in the Service Bulletin 4812 718 40084.

Spare part list

Model ADG 8966 IXM Service No. 854296610760 Version 854296610760

Pos. No.	. 12NC Code	Description	Pos. No.	12NC Code	Description
003 0	4812 440 19594	Traverse	332 0	4812 410 28675	Button BK
004 0	4812 440 18952	Drip tray assy	332 1	4812 410 29028	Button IN
004 1 011 0	4812 401 18402 4812 505 18369	Holder Foot long	332 2 350 1	4812 410 28672 4812 440 19781	Button BK Window BK
011 1	4812 528 98004	Shaft flexible	350 2	4812 381 28047	Lens
011 2	4812 528 78032	Slide disc f.foot	400 0	4812 361 58336	Motor +SP,50Hz,alt.LP-PNT1
011 3 011 4	4812 535 98054 4812 528 98001	Gear Roll f.foot	405 1	4819 515 28158 4812 121 18132	Gasket
022 0	4812 440 19398	Side panel left	420 0 421 0	4812 121 18132	Capacitor Interf.filter
022 1	4812 440 19397	Side panel right	430 0	4812 360 18508	Pump,draining cpl.
024 0	4812 440 10417	Panel, rear	430 1	4812 466 68689	Gasket
040 1	4812 417 18774	Hinge left	442 0	4812 361 18402	Blower cpl.
040 2 044 0	4812 417 18773 4812 492 38362	Hinge right Spring f.door	450 0 480 0	4812 259 28684 4812 321 28405	Heating element Cable harness set
047 0	4812 404 48746	Brake f.door	480 3	4812 401 18418	Protector f.wiring
047 1	4812 401 18397	Band,brake	490 0	4819 321 18136	Cable, mains 2m SA
047 2 053 0	4812 404 68023 4812 440 88884	Hook Plinth	490 1 521 0	4812 321 28367 4812 214 79088	Strain relief Control board (CB)
103 0	4812 440 88884	Door outer	5210	4812 214 79088	Switch waterhardness
105 0	4812 404 48611	Fastener door	531 1	4812 273 18056	Wheel, fingertip
105 2	4812 505 68004	Clip	571 0	4812 281 28379	Valve inlet
120 0 120 1	4812 440 19456 4812 440 18969	Door,inner Batten	575 0 583 0	4812 281 28361 4812 271 28459	Regen.valve Switch diaphragm (OWI)
130 0	4812 417 58373	Tilt lock cpl. bk	616 0	4812 281 18047	Contact, reed salt
131 0	4812 401 18416	Hook lock	616 1	4812 271 58161	Contact, reed rinsing agent
175 3	4812 466 68572	Batten	620 0	4812 310 28066	User board KIT (DUB)
191 0 192 0	4812 466 68564 4812 466 68467	Gasket door Gasket, door lower	623 0 633 0	4812 271 38356 4812 271 38355	Microswitch Microswitch door
241 0	4812 458 19027	Basket upper straight	680 0	4812 418 68155	Combidosage
241 1	4812 458 18324	Holder cups right wh	680 1	4812 466 68495	Gasket
241 3	4812 528 88068	Wheel, basket upper (set)	681 1	4812 466 68497	Gasket
241 4 241 5	4812 458 18984 4812 535 78043	Holder dishes wh Bearing	681 2 682 0	4812 440 18975 4812 466 68496	Flap Gasket
241 7	4812 404 48683	Ноор	691 1	4812 462 79769	Stopper NTC
241 8	4812 466 68553	Spacer cap set	701 0	4812 530 28081	Hose, inlet 3/8Z cpl. 5m
242 0	4812 310 28136	Basket lower KIT Wheel,basket lower wh	701 0 701 0	4812 530 28082	Hose, inlet 3/8Z cpl. 3m Hose, inlet 2.5 m (Eltek)
242 1 242 6	4812 528 88069 4812 458 18977	Support plate left	701 0	4819 530 28926 4812 310 18153	Yoke clamp set
242 7	4812 458 18978	Support plate right	710 0	4812 418 68128	Monoblock
243 0	4812 458 18272	Basket cutlery	710 2	4819 310 38536	Threaded ring
243 5	4819 310 39859	Cutlery basket KIT	710 3	4819 466 69562	Gasket set
243 6	4812 458 18996	Grille wh	714 0	4812 462 78993	Threaded cap
261 0 261 1	4812 462 79831 4812 462 79768	Rail telescope, inner Cap rail	716 0 716 1	4812 418 68147 4812 466 68475	Reg.dosage Gasket
261 2	4812 462 79856	Cap swinging, rail ahead	716 2	4812 462 78994	Cover
263 0	4819 520 18013	Ball cage cpl.	717 0	4812 281 28431	Valve motordiverter
263 1 265 0	4812 520 48001 4812 404 48637	Ball Niro 8 D Basket adjustm. cpl.	717 2 717 3	4812 528 98011 4812 530 29121	Valve disk diverter Gasket diverter valve
265 U 265 2	4812 404 48637 4812 404 48638	Grip basket adjustment	717.3	4812 360 68347	Spray arm lower, cpl.
301 0	4812 453 72418	Control panel INOX	722 0	4812 360 68348	Spray arm upper wh
303 1	4812 460 38132	Plate,handle SIL	722 2	4812 360 68349	Spray arm 2nd level cpl. wh
305 1	4819 502 18241	Screw synthetic	723 0	4812 360 68351	Douche ceiling
305 2 305 6	4819 505 18191 4812 440 10739	Nut Batten SIL-MET.	726 1 726 2	4812 530 29118 4812 505 18208	Tube assembly cpl. Nut
331 0	4812 413 59133	Knob program cpl. SILV	743 0	4812 530 48594	Air guide
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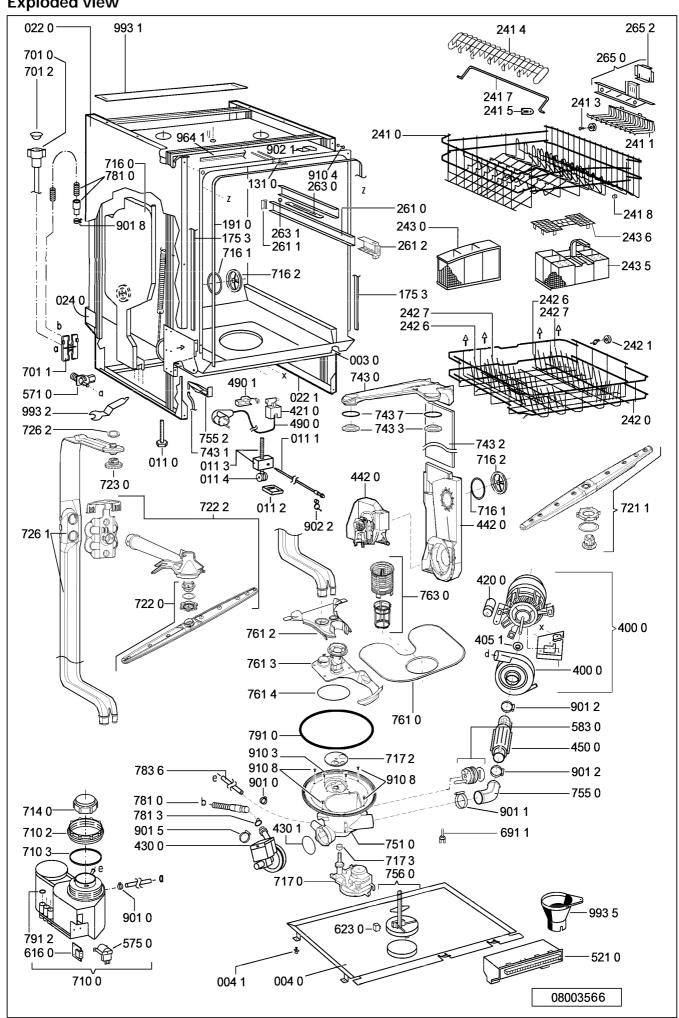
SERVICE

Spare part list

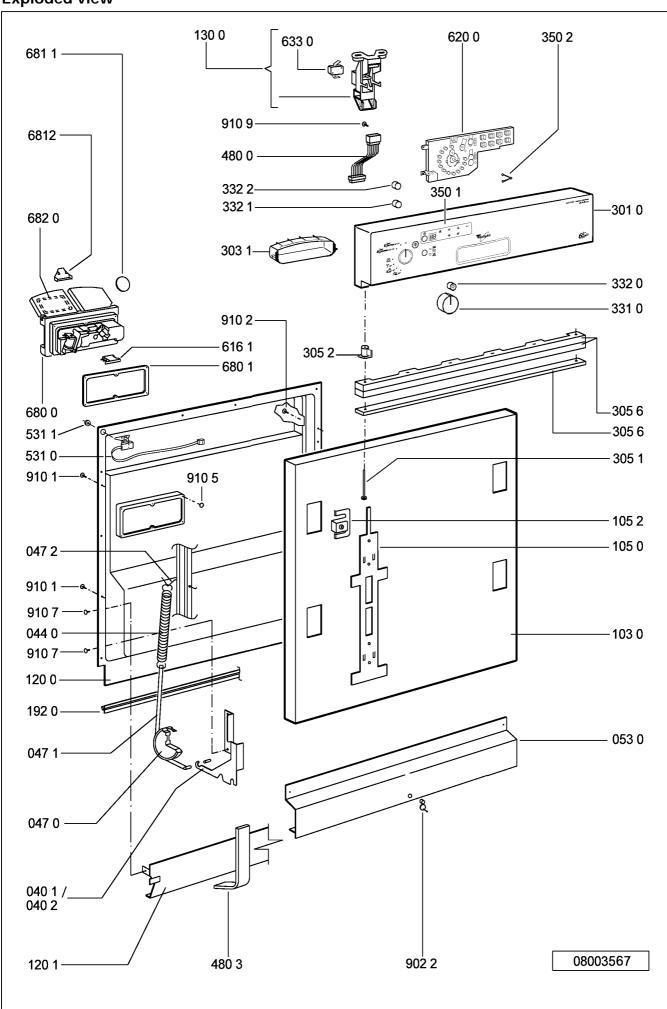
Model **ADG 8966 IXM** Service No. 854296610760 Version 854296610760

Pos. No.	12NC Code	Description
743 1	4812 530 28102	Hose, inlet
743 2	4812 511 48334	Condenser
743 3	4812 462 79857	Cover
743 7	4812 466 68514	Gasket
751 0	4812 418 18338	Water collector
755 0	4812 530 29119	Bend
755 2	4812 530 48148	Tray,leak
756 0	4812 360 58099	Floater
761 0	4812 480 58122	Sieve fine
761 2	4812 418 18337	Cover sieve
761 3	4812 418 18341	Cover
761 4	4812 530 58141	O-Ring
763 0	4812 480 58123	Sieve coarse
781 0	4812 530 29113	Hose,draining
781 3	4812 281 28417	Flap non-return
783 6	4812 530 28796	Hose 10x3x180+10
791 0	4812 532 68099	Gasket
791 2	4812 530 58093	Gasket
900 1	4812 310 28021	Fastener set (not shown)
901 0	4822 401 10258	Clamp,hose 10-18 mm
901 1	4812 401 18424	Strap 050,0
901 2	4812 401 18157	Strap 32-50/9 C61
901 5	4812 401 48573	Strap 028,6
901 8	4812 401 18075	Strap 20-32/9 mm
902 1	4812 466 78015	Fastener f.buildt-in models
902 2	4812 404 78241	Holder
910 1	4812 502 38152	Screw 4.8x19
910 2	4812 502 18363	Screw 4,0x12-H
910 3	4812 502 18389	Screw 5x20 T20
910 4	4812 502 18385	Screw M3,5x8-T15M
910 5	4812 502 18393	Screw 3,5x9-1 Tx15
910 7	4812 502 18397	Screw INOX A2 M 5X12
910 8	4812 502 18527	Screw 4x15 T20
910 9	4812 401 18425	Screw 2,5x18-H
964 1	4812 466 68573	Gasket housing upper
993 1	4812 466 78388	Foil protection
993 2	4812 404 48753	Key foot
993 5	4822 532 80216	Funnel salt

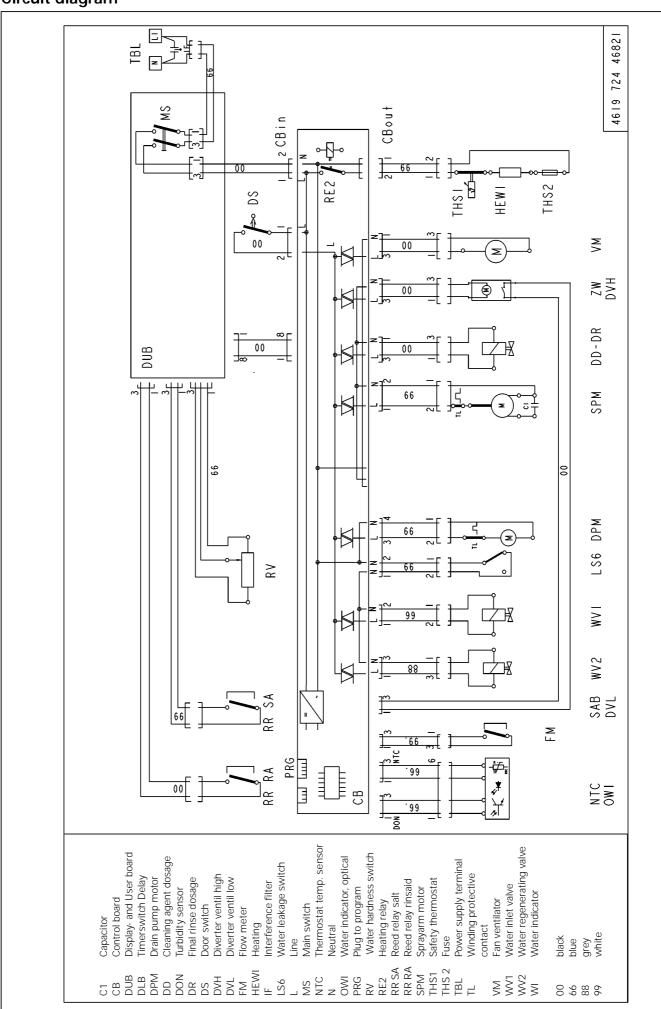
Exploded view



Exploded view



Circuit diagram



no program function

Program diagram

4619 724 44191-1 r : rinsing time 0 min. till 12 min. depends on soil level (Ä05: 4619 724 44191/05) 07.03.03 evel h: heating up to 40°C till 70°C depends on soil i : 2nd intermediate rinse depends on soil level f: water fill if (d) water was drained out d : drain out depends on soil level XU = Upper spray arm working = Lower spray arm working Point alternating wash Function diagram X = time in minpu∃ pu∃ arying - araining s 0E + E 15 71 38 20 12 40 uļw drying - with Fan 7 7 7 7 7 7 7 0 7 OZ 7 7 7 7 7 uju drying - without Fan s 05 drying - draining s۱ sε drying - regenerating SI nim č, ľ drying - regenerating s 05 + 51 draining - regenerating
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 < buisui ٥l uιu 89 89 7.5 L5 = °C rinsing - heating s 0£ nsing - dos. rinse aid + heat. 27 28 29 rinsing - heating s 05 s 0£ rinsing - dos. rinse aid + heat. = 21 77 T 77 カヤ か か ₩ **77 77 77** 77 77 か insing - heating <u>....</u> м: gniznin - gnilliñ s 0E + E uusiud - qusiiiid 9 uļu Bujsuj. gnisnin - gnilliñ 77 w: s 05 + 51 uusiud - qusiiiid 8 9 9 9 01 01 8 9 uļu 8 8 gnienh - gnilliì 777 W: rinsing - draining s 05 + 51 nisning uıu 8 20 8 Ч 02 Ч 99 0۷ 99 = 21 insing - heating ı 8 1⁄2 uļw pnisnin 24 20 ₩ เมะเมชิ - มษฐเมชิ Lt = 21 rinsing - dos detergent s 05 gnisnn - gnilliñ 7 N р р s 05 + 51 rinsing - draining gnianir 50 9 6 21 21 uļu 6 21 09 rinsing - heating 8 09 T2 = °C ____ W: gnisnin - gnilliñ qısınıng SOL filling + draining (1 ltr.) ____ W: s S <u>гит м</u>: filling + draining (1 ltr.) s e əsned filling + draining (1 ltr.) s 05 + 51 qraining Startposition for all progr A11a Sani' A7a A6a A5e A5a A4a A10a A8a A5d A5b A3a A2a A1a A9a A7a1 A5c Function of the machine Intensiv Program 70°C (from production-week 08/02) Intensiv Program 70°C (for 60Hz DW an athers till prod.-week 07/02) g the waterindicator is low osage detergent + rinse f3 draining time up to il Rinse Program Express Program 30°C lasses program 40°C Jormal Program 65°C Iormal Program 40°C lormal Program 40°C Jormal Program 50°C Jormal Program 50°C lormal Program 50°C Prewash program cold generating valve 2 Contacts t2 heating up to temp. RE2 ensor Eco normal SPM co Program 50°C DPM ter inlet valve nsor intensiv FM_n_ amount of water erter valve eating relay ain pump oray pump to Sensor contact or triac closed

Test procedure for SERVICE-TEST-PROGRAM Point dishwashers appliances with and without 7 Segment Display

Switch on the appliance. If there is no failure indicated, then

- Start the passive test program.
 If there is a defective component indicated, open the plinth and take out the control board (CB).
- 2. Check the component.

Unplug the indicated component from the control board (CB) and check it by using an Ohmmeter

If the resistance is not correct, check the cables to the component and check the component itself.

- 3. Visibly check the control board (CB).
- 4. At the end of the repair start the appliance and delete the failure. After this, start the passive and active test program again to see that the failure is solved.

More details: see following pages.

Attention:

Danger for short circuit. Short circuits on components can damage the control board (CB).

If electronic boards are wet, do not switch the appliance on

To check the appliance, plug in the appliance.

Failures, which occurred during the program will be stored and indicated by flashing the start LED.

The failure will be indicated and can be related to the failure table

To erase the failures, you must push the start button longer than 1,5 seconds

The failures F1 NTC break

F2 water leakage

F9 continuous water inlet

are checked and indicated immediately after start of the program.

Therefore these failures have to be solved before starting the active test program.

When these failures are not solved, the active test program does not run.

The electrical components get their voltage via triac from the control board (CB). To test the voltage the voltmeter must be connected in parallel to the component (the component must be connected). If the component is disconnected, then the output voltage from the control board (CB) is reduced.

After starting a program this program is locked. That means neither by unplugging/switching off the appliance nor by setting to another program, the first set program cannot be changed. Changing of the program is only possible by pushing the start button again for longer than 1,5 sec..

Attention: New service control boards start at first with the service test program. This test program is without back rinsing. Dangerous for overfilling the appliance, in case the appliance is not empty. By running the test program or another program a second time, the back rinsing will be carried out as usual.

4619 724 43901-1

Handling of failures

FO Sensor failure (only when a dirt sensor is installed)

Will not be indicate to the customer. The programs will finish even if there is a failure. The Failure is indicated only in the active test program after 10 – 30 second's. The active test program will finish as well, even if there is a failure.

If the failure in a sensor program appears, the machine will always choose the highest consumption (best cleaning result).

- None or wrong output from the sensor
- Unlogical or unreal measurement results

Reason:

- Defective electronic of the sensor
- Optoelectronic parts in the sensor defect
- The sensor is very dirty
- Connection between sensor and control board (CB) interrupted

Attention: The failure code will not store.

F1. NTC break

Temperature out of the normal value (-3°C till +85°C)

- Temperature inside higher than +85°C
- NTC defective
- Dishwasher is frozen, less than -3°C

If the temperature is less than -3°C, fill the appliance with a cup of warm water to warm it up before you start it..

F2. Water Leakage

- Water is in the drip tray

Floater (LS6) switches off the WV1 and the electronic switches on the DPM until WI reports that it is empty.

F3. Heating System Defective

Indicated after app. 25 minutes (1. check after 5 min., after that follow 2 more checks, before the failure is indicate)

- Heats too slowly (less than 1,5 °C in 10 min.)
- Heating (HEW) defective
- Relays (RE2) on control board (CB) is defective
- NTC resistance fluctuation

F4. Draining Failure

Drain pump starts and after 4 min. the WI detects that it is "not empty"

- Drain pump (DPM) defective
- Siphon closed
- Control board (CB) defective
- OWI/WI defective

F6. Water Tap Closed

Water valve (WV1) is switched on but flow meter (FM) sends no impulses (less than 10 imp. in 10 sec.) and the water indicator (WI) is off (empty)

- Water tap closed
- Water inlet hose blocked
- Water inlet valve (WV1) defective
- Flow meter (FM) defective (leads to FM failure)

F7. Flow Meter Failure

Water inlet valve (WV1) is switched on and the water indicator (WI) is on (full).

- Flow meter (FM) sends too few impulses (less than 10 imp. in 10 sec.)
- Water tap closed during water inlet
- Water inlet hose blocked
- Water inlet valve (WV1) defective
- Flow meter (FM) defective

F8. Water Level Failure

Failures are supervised over the whole program.

Mechanical water indicator WI: Spray pump works, the WI switches more than 20 times in 2 minutes back

Optical water indicator OWI: Always after the OWI-Signal is missing, the electrical components are turned off for 5 sec. If after the 5 sec. the OWI-Signal is still not present then, it notes a Failure F8. If, however, after the 5 sec. the OWI-Signal is present, then the water-level is filled to 6 Ltr. and the electrical components are again turned on. After the OWI signal is missing for a second time note an F8 Failure.

- WI defect? Should switch on after approx. 1 Ltr
- Sieve blocked
- Water strongly foams
- Pot has turned off and is filled with spray water
- No stable spray pump (SPM) working

F9. Continuous Water Inlet

Water inlet valve (WV1) is switched off, water indicator (WI) on, flow meter (FM) sends impulses (more than 10 imp. in 10 sec.)

- Water inlet valve (WV1) mechanically not closed
- Triac (CB) permanently switched on. (short circuit)

Reaction: interval 30 sec. drain pump on / 20 sec. drain pump off in interval

The following failures will only be indicated, when the relevant component is installed.

FA. OWI (Optical Water Indicator) - Failure

If the electronics signals of the Flow meter for the 3,4 Ltr. of water has been received on permanent wash system and 2,5 Ltr on alternating wash system and the OWI signal "Water in the sump" is missing then take note.

- Lens will be cleaned: Water inlet off for 10 Sec and SPM on for 10 Sec.
- If after that there is still no signal "Water in sump", then the appliance goes into failure mode FA.

FB. MDV (Motor Diverter) - Failure

Failure condition:

Start water inlet. After 15 sec. switches the WI. After that, when not within 120 sec. comes a signal from the MDV to the control board, lower or upper spray arm is functioning, then the FB will indicate.

Check:

- Do the upper and lower spray arms alternate turns in approx. 30-40 sec.? If only one turns then there is a failure.
- Is the diverter disc in the sump blocked? Yes, unblock it.
- Does 230V come from the control board (ZW,DVH) to the MDV? No, change control board.
 How to check:
 - Start test program and wait until backrinse is over. After the start of the regular water-inlet must come 230V within 30 sec. for approx. 20 sec. to the MDV.
- Is the winding of the MDV or cable to the MDV interrupted? (ZW,DVH) resistance of the MDV should be approx. 6,3 K Ω
- Is the signal cable between the MDV and control board (SAB,DVL) carrying 5v?

FC. ASA (Automatic Salt Adaptation)/ Water hardness sensor Failure (only indicates in the active test program)

Failure condition:

Electronic on the water softener detects high electrical resistance in the resin

Cables on the sensors of the water softener interrupted or weak contact? Cables from the control board (ASA) to WHS electronic on the water softener interrupted or weak contact?

For salt, rinse aid, zone wash valve, sieve valve failure see active test program.

Failure Display POINT

Appliances with 1 and 2-c	ligit 7 Segment Display and without	: 7 Segment Display		
	Failure code, Indication in test program when a failure occurs			
Alarm / Failure	Shown with 7 segment display or without 7 segment display	Shown on 2/3 digit 7 segment display		
F1 NTC-Failure	START 禁 1 x flash 1s Pause 1 x flash	OFFICE OFFICE OFFI OFFI OFFI OFFI OFFI OFFI OFFI OFF		
F2 Water Leakage	START 禁 2 x flashes 1s Pause 2 x flashes	F 2.		
F3 Failure in Heating System	START ** 3 x flashes 1s Pause 3 x flashes	F 3		
F4 Draining Failure	START	F 4		
F6 Water Tap closed	START	F 6		
F7 Flow Meter Failure	START	Books Control		
F8 Water Level Failure	START	F 8		
F9 Continuous Waterinlet	START 禁 9 x flashes 1s Pause 9 x flashes	F. 0		
F0 Sensor-Failure (Only displayed in act. test program)	START	FO		
FA OWI-Fehler	START 11 x flashes 1s Pause 11 x flashes	FA		
FB MDV-Fehler	START 12 x flashes ** 1s Pause 12 x flashes			
FC ASA-Fehler (Only displayed in act. test program)	START 禁 13 x flashes 13 x flashes	FC		



"Rotor blocked (F5)" isn't displayed on the POINT appliance

With the passive test program, you can check all LED's and buttons. If there is no failure the passive test program runs normally.

Attention:

If you can't start the active test program (Start button doesn't flash), normally there is one of the following failures detected: F1, F2 or F9

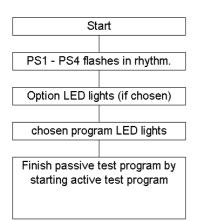
When these failures are not solved before, the passive and active test program will not run. After solving the failure you must "sign" (erase) the failure.

A present failure will be indicate directly after you switch on the appliance. Then fix the mistake, erase failure and start test program again (see following start procedure).

Start procedure

Start the passive test program if there is no failure indicated

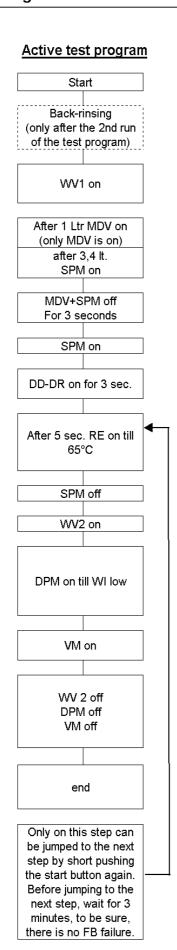
If there is no failure the passive test program runs normally.



- 1. Turn OFF appliance
- 2. Push start button and hold it.
- 3. Select program position 1.(turn to the right or with WP VBL turn to the left)
- 4. Finish pushing the start button when the start LED flashes.
- 5. Test all LEDs by operating the buttons and the program knob. After the check, turn the program knob on to program place 1
- 6. Start the active test program by pushing the start button again
- Failure indication.
- 8. Repair the failure
- Solve the failure by pushing the start button for longer than 1,5 sec.
- Start the active test program again, to see, if the failure is really solved

Active test program starts (see next page)

PS1	1.LED	prewash		
PS2	2.LED	mainwash		
		intermediate rinse		
		final rinse		
DC2	3.LED	drying (regeneration)		
PS3	3.LED	drying (regeneration)		
PS3 PS4	4.LED	end	goes off if any	goes off if after
			goes off if any button is pushed	goes off if after 30 min prog. Is



Remarks

The active test program runs to the failure position and stops or, if there is no failure, it runs to the end.

To leave the test program push the start button for longer than 1,5 second's.

Not enough salt or rinse aid will not stop the running of the appliance.

Remark When switching off the main switch or interrupting the mains, during the test program runs, then the alternating of the spray arms changes in the test program from 30/30 sec. to the rhythm of the main wash 5/3 min.

Important Leaving the test program is possible by making a break by the customer (Pushing the start button for more than 1,5 sec.).

After finishing the test program (End LED shines and/or Start LED goes off) then the appliance must be switched off.

If this is not done, then the next main wash will be made with the frequency of the Service Test Program \sim 30/30 sec. instead of 3/5 min.

When the failure position is reached the failure indication is indicated on the page "Failure Codes"

Attention:

If you can't start the active test program (Start button doesn't flash), normally there is one of the following failures detected: F1, F2 or F9

When these failures are not repaired before, the active test program will not run. After solving the failure you must "sign" (erase) the failure.